

CLAIM LISTING

1. (original) A method for detecting the presence of FMDV in a sample, the method comprising:
 - (a) performing RT-PCR amplification of the sample using at least one primer pair selected from the group consisting of:
 - (i) SEQ ID NOs:16 and 17,
 - (ii) SEQ ID NOs:16 and 18,
 - (iii) SEQ ID NOs:16 and 19, and
 - (iv) SEQ ID NOs:16 and 20,to produce an RT-PCR amplification result; and
 - (b) examining the RT-PCR amplification result of step (a) to detect for an amplification product of the primer pair, whereby a positive detection of the amplification product indicates the presence of FMDV in the sample.
2. (original) The method of claim 1, wherein in step (b) a melting curve analysis is used to detect for an amplification product.
3. (original) The method of claim 1, further comprising a step of extracting RNA from the sample prior to said step (a).
4. (currently amended) An isolated polynucleotide for primer directed nucleic acid amplification for detection of FMDV ~~comprising~~ consisting essentially of SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, or SEQ ID NO:20.
5. (currently amended) A kit for detection of FMDV, comprising:
 - (a) at least one primer pair selected from the group consisting ~~essentially~~ of:
 - (i) SEQ ID NOs:16 and 17,
 - (ii) SEQ ID NOs:16 and 18,
 - (iii) SEQ ID NOs:16 and 19, and
 - (iv) SEQ ID NOs:16 and 20;
 - (b) reverse transcriptase; and
 - (c) thermostable DNA polymerase.
6. (currently amended) A replication composition for use in performance of RT-PCR, comprising:
 - (a) at least one primer pair selected from the group consisting ~~essentially~~ of:

- (i) SEQ ID NOs:16 and 17,
 - (ii) SEQ ID NOs:16 and 18,
 - (iii) SEQ ID NOs:16 and 19, and
 - (iv) SEQ ID NOs:16 and 20;
 - (b) reverse transcriptase; and
 - (c) thermostable DNA polymerase.
7. (original) A tablet comprising the replication composition of claim 6.
8. (original) A kit for detection of FMDV in a sample, comprising the tablet of claim 6.